

Operating Environments

Use this instrument in an environment in which the operating temperature is between 0 and 40°C and the humidity is between 30 and 70%RH with no condensation.

Use this instrument at a site with a minimum amount of dust, oil, and oil mist, and which is not directly exposed to sunlight.

Precautions for Use



Do not move the spindle quickly and do not apply an excessive load to the spindle laterally.
If this instrument receives a blow due to a drop, etc., check its performance and accuracy before use.
Confirm that the long pointer, short pointer, and spindle move smoothly.
Check the contact point and the screws on the back cover, etc., for looseness.
If this instrument is used at a site with a temperature variation, frequently adjust the setting position of the long pointer with a master gage.
The warranty will be voided if this product has been subject to repair, disassembly, or modification by the user or any third party.

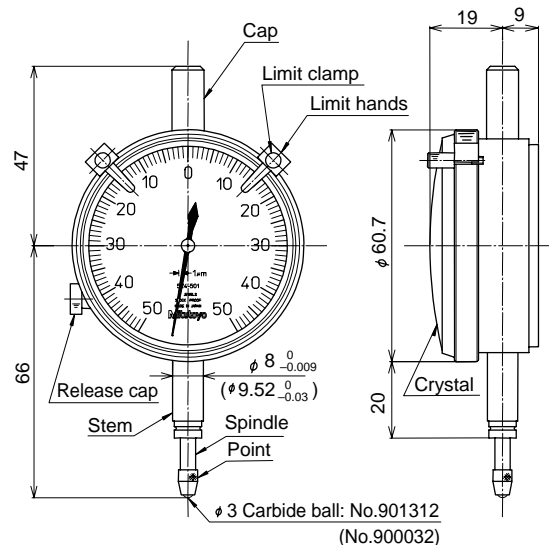
Maintenance/Inspection

Wipe dirt from the spindle sliding face with a dry cloth or a cloth dampened with a small amount of alcohol. Never lubricate the spindle at this time.

Wipe dirt from the crystal cover with a soft and dry cloth or a cloth dampened with a small amount of neutral detergent. Be sure to use only a neutral detergent.

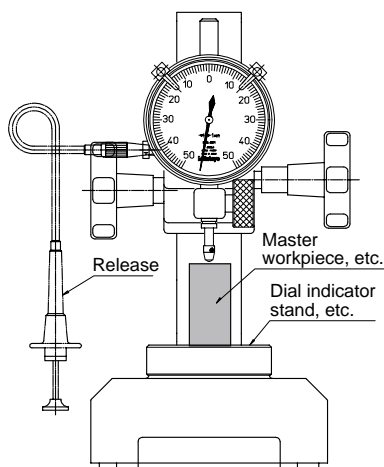
The performance deterioration of this instrument depends greatly on the operating conditions. It is recommended that the client prescribe the maintenance period, taking the frequency of use, environment, usage, and other conditions into account and inspect the instrument periodically.

Appearance/Specification



* A number in parentheses indicates a dimension in inches or an order number.

Example of Usage



Features

Code No.	524-500	524-501	524-502	524-505	524-510
Graduation	0.0005mm	0.001mm	0.002mm	.00005"	.00002"
Measurement range	±0.03mm	±0.05mm	±0.1mm	±.002"	±.001"
Range/rev	0.072mm	0.12mm	0.24mm	.0048"	.0028"
Graduation specifications	30-0-30	50-0-50	100-0-100	2-0-2	1-0-1
Spindle stroke	About 3mm				
Repeatability	0.2μm	0.3μm	0.5μm	.00001"	.00001"
Accuracy	±0.5μm	±1μm	±1.5μm	±.00005"	±.00003"
Retrace	0.5μm	0.5μm	0.6μm	.00003"	.00003"
Measuring force	1.2N or less				
Mass	125g				

- Standard accessory: Release (540774)
- Optional accessory: Lug-back cover of metric model (131304)
- Optional accessory: Lug-back cover of inch model (131306)

As shown in the left figure, mount this Hicator on a mounting tool such as a dial indicator stand. Mount the Hicator by clamping the stem (8 or 9.52).

Perform zero-adjustment of the pointer using a master workpiece or a gauge block. If the Hicator needs to be finely moved up and down at this time, it is greatly convenient to use the stand with a fine-feed mechanism.

The limit pointer positions can be adjusted by loosening each limit clamp. Clamp the limit pointers at given positions according to the upper and lower tolerance limits of a workpiece to be measured.

It is possible to move the Hicator spindle up/down using the supplied release. Remove the release cap from the Hicator and screw the release tip in the same position. The release is convenient for use in a case that a workpiece cannot be slipped in for measurement with the contact point being in contact with it.